

**MULTI-FORMAT SAMPLE PROCESSING DEVICES,  
METHODS AND SYSTEMS**

**Abstract of the Disclosure**

5 Devices, methods, and systems for processing sample materials are disclosed. The present invention may provide a bridge between standard microtiter plate systems, methods, protocols, etc. (that include wells arranged in rectangular arrays) and rotating sample processing devices and systems that allow users to obtain the rapid processing advantages of the more advanced sample processing devices. The sample processing  
10 devices preferably include a rectangular body to improve compatibility of the sample processing devices of the present invention with equipment designed for use with more conventional microtiter plates (which are typically rectangular in shape). The sample processing devices also include at least one set of process chambers arranged in one or more circular arcs and may include input and/or output chambers arranged in a  
15 rectilinear grid array.